



## Contents Volume 311

Behavior of calcium carbonate growth during low-temperature multi-effect distillation seawater desalination Dongdong Liu, Daquan Zhang, Tingting Zhang, Yijie Cai (China) .....	1
Chemometric appraisal of groundwater and surface water quality for domestic, irrigation and industrial purposes in the coal mining province of Mahan River catchment area R. Kausher, A.Kr. Sinhab, R. Singh (India) .....	10
Assessment of water quality indices for human consumption and their comparison J.A. López-Martínez, E. Gutiérrez-Segura, M. Solache-Rios, V.F. Pacheco Salazar, G. Fonseca-Montes de Oca, C. Rodríguez-Soto (Mexico) .....	26
Electrochemical-magnetic method for the recovery of concentrated effluent from water membrane processes M. Naderi, V. Past, A.H. Mahvi, G. Ebrahimzadeh (Iran), M. Pourshahroudi (UK) .....	34
Assessing the efficacy of bentonite as a coagulant aid for raw water treatment N. Zaki, N. Hadoudi, N. Bensitel, A. Salhi, H. Amhamdi, M. Ahari (Morocco) .....	45
Evaluation of the factors influencing the performance of a natural zeolite-based biologically aerated filter B.P. Nambiar, R. Pawels, G. Madhu (India) .....	54
Biosorption of Cd(II) ions by <i>Chlorella microalgae</i> : isotherm, kinetics processes and biodiesel production I.M. Rashid, A.I. Alwared, H.N. Abdelkareem (Iraq) .....	67
Strengthening the adsorption performance of Cd(II) on sludge biochar by $\text{KMnO}_4$ -modification Weiwei Deng (China) .....	76
Impregnating multiwalled carbon nanotubes with Cyanex 923 extractant to improve harmful chromium(VI) adsorption from aqueous media F.J. Alguacil, J.I. Robla (Spain) .....	85
Effect of natural sorbents on the stabilization of trace metals in bottom sediments M. Wojtkowska, J. Bogacki (Poland) .....	92
Removal of copper and lead ions from rainwater with an alginate-bentonite composite: batch and column studies A. Marszałek, E. Puszczalo (Poland) .....	100
Removal of selected dyes on activated carbons under flow-through conditions E. Okoniewska (Poland) .....	111
Activated carbons developed from Algerian agro-waste of palm trunk fiber: characterization and adsorptive capacity for azo dyes removal F. Cherdoud (Algeria), S. Khelifi (Tunisia), A. Reffas (Algeria) .....	118
A comparative study of the adsorption of a cationic dye on three substrates M. Kerrou, S. Raada, D. Mrani, A. Elanssari (Morocco) .....	135
Treatment of Terasil Red dye by bio-coagulation-microfiltration process: experimental study and modelling W. Seraghni, F. Balaska, M. Chikhi, A. Hasnaoui, M. Boussemgoune, R. Bouabid, A. Benalia (Algeria), Y. Ozay, N. Dizge (Turkey) .....	144
Magnetic modified chitosan composites for hexavalent chromium removal Bangchang Wei, Zheng Ji, Ya Xu, Shengnan Kong, Yansong Zhang, Chuanrun Li, Huchuan Wang (China) .....	155
Use of a local Saharan plant ( <i>Cladium mariscus</i> ) in the solar still under southeast Algeria climate Y. Aoun, A. Chemsas, A. Khechekhouche, A. Bellila, I. Kemerchou, O. Mostefaoui, A. Abderrahim (Algeria) .....	162

Comparison of liquid ferrate and ferric chloride coagulants for humic acid removal in a seawater reverse osmosis desalination plant A.H. Alshahri (Saudi Arabia) .....	169
Treatment and recycling of condensate wastewater for by-product production process of canned tuna factory: batch and continuous adsorption in a real production plant S. Baidugem, P. Kongjan, K. Sani, M. Raketh, S. Saraluck, S. Chotisuwan, R. Jariyaboon (Thailand) .....	175
Hydrothermal preparation of carbon adsorbent from 1,2-dichloroethane waste liquid assisted by nonylphenol ethoxylate Xinying Yu, Wenqi Zhang, Ziyun Yao, Jiawei Wang (China) .....	188
Adsorption of tetrakis(hydroxymethyl)phosphonium chloride on pomelo peel biochar and its antimicrobial ability Zhuannian Liu, Yue Li, Junnan Luo, Changshun Sun, Luncong Deng, Rui Zhou (China) .....	196
Effect of carbon sources on phosphorus forms distribution and functional bacteria metabolic pathway in anoxic-aerobic mainstream nitrogen removal process Yajing Li, Jian Zhang, Xinge Li, Lu Liu, Shaopo Wang (China) .....	209
Adsorption characteristics and mechanism of tetracycline by nitrogen-rich porous carbon material derived from peony seed shell Qiong Liu, Yuhan Xu, Xinghang Li (China) .....	216
Highly selective and efficient removal of phosphate by La(OH) <sub>3</sub> -loaded <i>Juncus effuses</i> with a three-dimensional structure Yuhang Xu, Wei Li, Sisi Qin, Kai Su, Junmin Chen, Shengli Zhang (China) .....	228
Activated alumina as adsorbent for fluoride and nitrate ions removal from synthesized photovoltaic cells manufacturing effluents F. Djouadi Belkada, O. Kitous, O. Bouchelaghem, N. Drouiche, M. Hecini, N. Mameri (Algeria) .....	237
Leaching of microplastics from PVC pipes under stagnant conditions R. Temam, M.M. Mortula (UAE) .....	243
Author Index .....	253